

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
30 June 2005 (30.06.2005)

PCT

(10) International Publication Number  
**WO 2005/058593 A1**

(51) International Patent Classification<sup>7</sup>: **B32B 3/28, 3/24**

(74) Agent: **VOSTRIKOV, Gennadi Fedorovich**; Leningradski pr., 47-3-215, Moscow, 125167 (RU).

(21) International Application Number:

PCT/RU2003/000553

(22) International Filing Date:

17 December 2003 (17.12.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(71) Applicants (*for all designated States except US*): **AIRBUS** [FR/FR]; 1 Rond Point Maurice Bellonte, 31707 Blagnac Cedex, (FR). **OTKRYTOE AKTSIONERNOE OBSHESTVO "KAZANSKY NAUCHNO-ISLEDOVATELSKY INSTITUT AVIATIONNOI TEKHNologii"** [RU/RU]; ul. Dementieva, 2v, Kazan, 420036 (RU).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

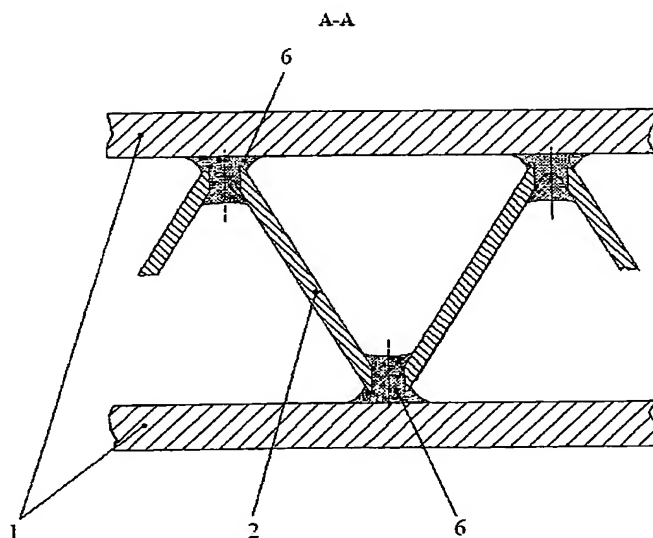
(75) Inventors/Applicants (*for US only*): **AKISHEV, Niaz Irekovich** [RU/RU]; ul. Kulahmetova, 18-29, Kazan, 420033 (RU). **ZAKIROV, Ildus Muhametgaleevich** [RU/RU]; ul. Vishnevskogo, 10-24, Kazan, 420043 (RU). **NIKITIN, Alexandr Vladimirovich** [RU/RU]; ul. S.Hal-turina, 11/10-60, Kazan, 420032 (RU).

Published:

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: **SANDWICH PANEL**



(57) Abstract: The invention can be defined in its most general form as a building unit, namely the sandwich panel with light core from corrugated sheet material in the form of zigzag crimp, and can be used in aircraft construction, as well as in shipbuilding and construction. Making use of the claimed invention will improve the weight efficiency, the strength and the manufacturability of the panel. The beneficial effect is attained due to the fact that the plane slanting ridges are connected along the protrusion and recess zigzag lines by means of curvilinear parts, whose radius is not less than the core material thickness, whereby along said parts is a line perforation enabling the adhesive material to get into the holes of the perforation in the course of core-skins assembling.

WO 2005/058593 A1